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1054 U.S. PTOPlease type a plus sign (+) inside this box ☒Approved for use through 10/31/2002, OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control numberUTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket 650053.91134

First Inventor John W. Lough, Jr.

Title Bone Morphogenetic Protein and Fibroblast Growth

Express Mail EK941817941US
Label No.

APPLICATION ELEMENTS

See MPEP Chapter 600 concerning utility patent application contents.

ADDRESS TO: Commissioner for Patents
Box Patent Application
Washington, D.C. 202311. ☒ Fee transmittal Form
(Submit an original and a duplicate for fee processing)2. ☐ Applicant claims small entity status
See 37 CFR 1.27.3. ☒ Specification [Total Pages 23]

- (Preferred arrangement set forth below)
- Descriptive title of the invention
- Cross References to Related Applications
- Statement Regarding Fed Sponsored R&D
- Reference to sequence listing, a table or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☒ Drawing(s) (35 USC 113) [Total Sheets 5]

5. Oath or Declaration [Total Pages 3]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from prior Application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
- i. ☐ DELETION OF INVENTOR(S)
Signed Statement attached deleting inventor(s)
named in prior application, see 37CFR 1.63(d)(2)
and 1.33(b)

6. ☐ Application Data Sheet. See 37 CFR 1.767. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. ☒ Computer Readable Form (CRF)
- b. Specification Sequence Listing on
- i. ☐ CD-ROM or CD-R (2 Copies); or
- ii. ☒ Paper
- c. ☒ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- 9. ☐ Assignment Papers (cover sheet & documents)
- 10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(where there is an assignee)
- 11. ☐ English Translation Document (if applicable)
- 12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
Citations
- 13. ☐ Preliminary Amendment
- 14. ☒ Return receipt postcard (MPEP 503)
(Should be specifically itemized)
- 15. ☐ Certified copy of priority Document(s)
(if foreign priority is claimed)
- 16. ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information: and in a preliminary amendment or in an
Application Data Sheet under 37 CFR 1.76
☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application no. 09/056,513
Prior application information: Examiner: David S. Romeo Group/Art Unit: 1646
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied
under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by
reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

NAME Zhibin Ren
Quarles & Brady LLP
1 South Pinckney Street
P O Box 2113
ADDRESS
CITY Madison WI ZIP 53701-2113
USA TELEPHONE 608/251-5000 FAX 608/251-9166

Name Zhibin Ren Registration No. 47,897
Signature [Signature] Date: May 8, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on
the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

FEE TRANSMITTAL FOR FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

\$

Complete if Known

Application Number

Filing Date

Herewith

First Named Inventor

John W. Lough, Jr.

Group Art Unit

Examiner Name

Attorney Docket Number

650053.91134

METHOD OF PAYMENT (check one)

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit
Account
Number

17-0055

Deposit
Account
Name

Quarles & Brady LLP

- ☒
- Charge Any Additional Fee Required
-
- Under 37 CFR 1.16 and 1.17

- ☐
- Applicant claims small entity status
-
- See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:


☐ Credit
Card

☐ Money
Order

☐ Other
FEE CALCULATION**1. BASIC FILING FEE**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$)710.00

2. CLAIMS

	Extra	Fee from below	Fee Paid
Total Claims	21	-20**= 1	X 18 = 18
Independent	5	-3**= 2	X 80 = 160
Multiple Dependent Claims			= 178

** or number previously paid, if greater. For reissues see below

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
109	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)178.00

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920	112	920	Requesting publication of SIR prior to Examiner action	
113	1,840	113	1,840	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive unavoidably abandoned application	
141	1,240	241	620	Petition to revive unintentionally abandoned application	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))	
146	710	246	355	For each additional invention to be examined (37 CFR 1.129(b))	
179	710	270	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$).00

SUBMITTED BYTyped or
Printed Name

Zhibin Ren

Registration No.
(Attorney/Agent)

47,897

Complete (if applicable)

Telephone

608/251-5000

Signature



Date

May 8, 2001



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Chicago (Quarles & Brady LLC)
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Milwaukee
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Tucson

May 8, 2001

Commissioner for Patents
Box Patent Application
Washington DC 20231

Re: Filing CIP Application

Dear Sir:

Enclosed for filing please find a continuation-in-part patent application entitled:
**BONE MORPHOGENETIC PROTEIN AND FIBROBLAST GROWTH FACTOR
COMPOSITIONS AND METHODS FOR THE INDUCTION OF CARIOGENESIS**

by John W. Lough, Jr., et al.

The undersigned hereby certifies that this document is being deposited with the United States Postal Service today, May 8, 2001, by the "Express Mail" service, utilizing Express Mail label number EK941817941US, addressed to: Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Please indicate receipt of this application by returning the attached postcard with the official Patent and Trademark Office receipt and serial number stamped thereon.

Respectfully submitted,

Enclosures
QBMAD304182

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Applicants: John W. Lough, Jr., et al.

Date: May 8, 2001

Serial No.:

Group Art Unit:

Filed: Herewith

Examiner:

File No.: 650053.91134

Title: BONE MORPHOGENETIC PROTEIN AND FIBROBLAST GROWTH FACTOR
COMPOSITIONS AND METHODS FOR THE INDUCTION OF CARDIOGENESIS

STATEMENT UNDER 37 C.F.R. 1.821(f)

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

The undersigned, an attorney registered to practice before the U.S. Patent and
Trademark Office and representing the applicants in the above-identified patent application
does hereby state and affirm that the content of the printed sequence listing contained within
the above-identified patent application and the content of the sequence listing attached hereto
in computer readable form are the same.

Respectfully submitted,



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